AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q79738

U.S. Application No.: 10/796,125

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

(Currently Amended) A transceiver unit (TU) comprising:

a receiver unit (RX)-adapted to detect from a physical medium a first downstream handshake initiation signal (C-TONES)-and a first upstream handshake initiation signal-(R-TONES-REO).

a transmitter unit (TX) adapted to transmit over said physical medium a second upstream handshake initiation signal-(R-TONES REO), and

a self identification module (SIM) adapted to identify said transceiver unit as a central unit or as a remote unit,

characterized in that said self identification module is coupled to said receiver unit and said transmitter unit, and is further adapted to:

wait for detection of any of said first downstream handshake initiation signal and said first upstream handshake initiation signal within a first time interval-(T1),

request said transmitter unit to transmit said second upstream handshake initiation signal if when none of said first downstream handshake initiation signal and said first upstream handshake initiation signal is detected within said first time interval, and wait for detection of said first downstream handshake initiation signal within a second time interval-(T2).

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identify said transceiver unit as a remote unit upon detection of said first downstream handshake initiation signal within said first time interval or within said second time interval, and identify said transceiver unit as a central unit upon detection of said first upstream

handshake initiation signal within said first time interval.

 (Currently Amended) A transceiver unit according to claim 0, characterized in that said receiver unit is further adapted to detect from said physical medium an upstream handshake confirmation signal-(R-TONE), wherein

in that said transmitter unit is further adapted to transmit over said physical medium a second downstream handshake initiation signal (C TONES), and

and in that said self identification module is further adapted to:

request said transmitter unit to transmit said second downstream handshake initiation signal ifwhen none of said first downstream handshake initiation signal and said first upstream handshake initiation signal is detected within said first time interval, and wait for detection of said upstream handshake confirmation signal within a third time interval (T3), and

identify said transceiver unit as a central unit upon detection of said upstream handshake confirmation signal within said third time interval.

3. (Currently Amended) A transceiver unit according to claim 0, characterized in that said self identification module is further adapted to request said transmitter unit to transmit said second downstream handshake initiation signal if when said first downstream handshake initiation signal is not detected within said second time interval. AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q79738

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4. (Currently Amended) A transceiver unit according to claim 0, characterized in

that said self identification module is further adapted to request said transmitter unit to transmit

said second upstream handshake initiation signal if when said first upstream handshake

confirmation signal is not detected within said third time interval.

5. (Currently Amended) A transceiver unit according to claim 0, characterized in

that said self identification module is further adapted to wait for a random or pseudo-random

period of time if when none of said first downstream handshake initiation signal and said first

upstream handshake initiation signal is detected within said first time interval, and if said first

downstream handshake initiation signal is not detected within said second time interval.

6. (Original) A transceiver unit according to claim 0, characterized in that a length of

any of said first time interval or said second time interval is a random or pseudo-random number.

7. (Original) A transceiver unit according to claim 0, characterized in that said

transceiver unit is a digital subscriber line transceiver unit,

and in that said first downstream handshake initiation signal is a C-TONES signal

according to ITU recommendation G.994.1, said first upstream handshake initiation signal and

said second upstream handshake initiation signal are R-TONES-REO signals according to ITU

recommendation G.994.1.

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 (Original) A transceiver unit according to claim 0, characterized in that said transceiver unit is a digital subscriber line transceiver unit,

and in that said first downstream handshake initiation signal and said second downstream handshake initiation signal are C-TONES signals according to ITU recommendation G.994.1, said first upstream handshake initiation signal and said second upstream handshake initiation signal are R-TONES-REQ signals according to ITU recommendation G.994.1, and said upstream handshake confirmation signal is a R-TONE1 signal according to ITU recommendation G.994.1.

 (Original) A transceiver unit according to claim 0, characterized in that said transceiver unit is a digital subscriber line transceiver unit,

and in that said first downstream handshake initiation signal and said second downstream handshake initiation signal are C-TONES signals according to ITU recommendation G.994.1, said first upstream handshake initiation signal and said second upstream handshake initiation signal are R-TONES-REQ signals according to ITU recommendation G.994.1, and said upstream handshake confirmation signal is a R-FLAG1 signal according to ITU recommendation G.994.1.